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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,644	08/25/2003	Mark Eric Obrecht	6002-00602	2528
B. Noel Kivlin	7590 03/08/2007		EXAM	INER
Meyertons, Ho	ertons, Hood, Kivlin, Kowert & Goetzel, P.C.		EXAMINER SHERKAT, AREZOO ART UNIT PAPER NUMBER 2131	
P.O. Box 398 Austin, TX 78767-0398 ART UNIT			PAPER NUMBER	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	NTHS	03/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	10/647,644	OBRECHT ET AL.					
Office Action Summary	Examiner	Art Unit					
	Arezoo Sherkat	2131	`				
The MAILING DATE of this communication app	ears on the cover sheet with the o	orrespondence addre	ss				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period version for the period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this commit (35 U.S.C. § 133).					
Status							
	1/2006		•				
 1) Responsive to communication(s) filed on 12/11 2a) This action is FINAL. 2b) This 	action is non-final.						
3) Since this application is in condition for allower		nsecution as to the mi	arite ie				
closed in accordance with the practice under E			citto to				
closed in accordance with the practice under E	x parte Quayre, 1955 C.D. 11, 4	JO O.G. 210.					
Disposition of Claims							
4) Claim(s) is/are pending in the applicatio	n.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>105-128</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r						
		Examiner.	•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct			1.121(d).				
11) The oath or declaration is objected to by the Ex	- · ·	_					
Priority under 35 U.S.C. § 119							
·	priority under 25 LLC C & 110/o) (d) or (f)					
12) Acknowledgment is made of a claim for foreign	priority drider 35 U.S.C. § 119(a)-(a) or (i).					
, ,	a) All b) Some * c) None of:						
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 						
3. Copies of the certified copies of the prior	· ·		ace				
application from the International Bureau	•		.90				
* See the attached detailed Office action for a list	, ,,	ed.					
Attachment(s)	A) []	. (DTO 442)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F						
Paper No(s)/Mail Date	6)						

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Response to Amendment

This office action is responsive to Applicant's amendment received on 12/11/2006. Claims 1-104 have been cancelled. Claims 105-128 have been added. Claims 105-128 are pending.

Response to Arguments

Applicant's arguments with respect to claims 105-128 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims105-128 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balasubramaniam et al., (U.S. Patent No. 6,671,812 and Balasubramaniam hereinafter), in view of Muttik, (U.S. Patent No. 6,775,780).

Regarding claim 105, Balasubramaniam discloses a computer-implemented method comprising:

selecting an active program on a computer system as code under investigation, wherein at least some of the code associated with the selected active program is

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running in kernel mode (i.e., searching for and deleting unused, obsolete, unneeded, or undesired software, components, or data on the user computer)(col. 14, lines 4-18), and executing malicious code detection code (MCDC) on the computer system, wherein the MCDC includes a plurality of detection routines (i.e., anti-virus program), wherein said executing includes: applying the plurality of detection routines to the code under investigation, wherein said applying includes associating weights to the code under investigation in response to detections of a valid program or malicious code; and determining whether the code under investigation is a valid program or malicious code as a function of the weights associated by the detection routines (i.e., performing a software and hardware diagnosites on the user computer and providing a health report card for the user computer)(col. 10, lines 20-67 and col. 11, lines 1-10).

Moreover, Muttik discloses the detection routines are applied to a given code to associate weights to the code in response to detection of a valid or malicious piece of code (fig. 2, item 212 - col. 5, lines 14-36).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Balasubramaniam with teachings of Muttik because it would allow to include associating possitive and negative weights for suspicious and non-malicious activity as disclosed by Muttik. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Muttik to keep a count of the total weight which is compared against a threshold value (Muttik, col. 5, lines 14-20).

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Regarding claims 115, 127, and 128, Balasubramaniam discloses a computerimplemented method comprising:

selecting a program currently running on a computer system as code under investigation, wherein said program is running in a manner that permits infection of said computer system (i.e., searching for and deleting unused, obsolete, unneeded, or undesired software, components, or data on the user computer), and executing malicious code detection code (MCDC) on the computer system, wherein the MCDC includes a plurality of detection routines (i.e., anti-virus program), wherein said executing includes: applying the plurality of detection routines to the code under investigation, wherein said applying includes associating weights to the code under investigation in response to detections of a valid program or malicious code, and determining whether the code under investigation is a valid program or malicious code [as a function of the weights associated by the detection routines](i.e., performing a software and hardware diagnosites on the user computer and providing a health report card for the user computer)(col. 10, lines 20-67 and col. 11, lines 1-10).

Moreover, Muttik discloses the detection routines are applied to a given code to associate weights to the code in response to detection of a valid or malicious piece of code (fig. 2, item 212 - col. 5, lines 14-36).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Balasubramaniam with teachings of Muttik because it would allow to include associating possitive and negative weights for suspicious and non-malicious activity as disclosed by Muttik. This modification would

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have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Muttik to keep a count of the total weight which is compared against a threshold value (Muttik, col. 5, lines 14-20).

Regarding claims 106 and 116, Balasubramaniam discloses the method of claim 105, wherein the code under investigation has access to other active programs executing on the computer system (i.e., a virus or malicious code on the computer system damages the computer system because it has access to other active programs executing on the computer system)(col. 10, lines 44-62 and col. 14, lines 4-18).

Regarding claims 107 and 118, Balasubramaniam discloses the method of claim 105, further comprising:

selecting one or more additional active programs as code under investigation, and executing said MCDC with respect to said code under investigation (col. 10, lines 44-62).

Regarding claims 108 and 119, Balasubramaniam discloses the method of claim 105, wherein the plurality of detection routines includes a plurality of valid program detection routines and a plurality of malicious code detection routines, wherein each of the plurality of detection routines individually associates weights to the code under investigation in response to detections of a valid program or malicious code (i.e.,

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performing a software and hardware diagnosites on the user computer and providing a health report card for the user computer)(col. 10, lines 20-67 and col. 11, lines 1-10).

Moreover, Muttik discloses the detection routines are applied to a given code to associate weights to the code in response to detection of a valid or malicious piece of code (fig. 2, item 212 - col. 5, lines 14-36).

Regarding claims 109-114 and 120-126, Balasubramaniam discloses the method of claim 105, wherein the malicious code includes remote control software, a keystroke logger, spyware, a worm, a Trojan horse, and monitoring software (i.e., viruses and unused, obsolete, unneeded, or undesired software, components, or data on the user computer)(col. 10, lines 44-64).

Regarding claim 117, Balasubramaniam discloses the method of claim 115, wherein at least some of the code associated with the selected active program is running in kernel mode (col. 14, lines 4-18 and col. 10, lines 44-63).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

A.S. Patent Examiner Group 2131 March 1, 2007 AYAZ SHEKH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100